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Commissioner of Patents and Trademarks,  
Washington, D.C. 20231 on June 17, 2002

Patent Application  
Docket No. GJE-90  
Serial No. 10/089,873

David Saliwanchik  
David R. Saliwanchik, Patent Attorney

6/KW  
9/18/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Neill Rawson and Richard Lees  
Serial No. : 10/089,873  
Conf. No. : 1428  
Filed : April 3, 2002  
For : Nonwoven Abrasive Material

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JUL 8 - 2002  
TC 1700

Office of Initial Patent Examination's Customer Service Center  
Assistant Commissioner for Patents  
Washington, D.C. 20231

REQUEST FOR CORRECTION OF FILING RECEIPT

Sir:

The applicants respectfully request the correction of clerical errors in the Official Filing Receipt for the above-identified patent application. The errors have occurred in the Foreign Applications Section and in the title. The corrections needed are as follows:

Foreign Applications

should read UNITED KINGDOM 0012085.7 06/18/2000

UNITED KINGDOM 0012085.7 05/18/2000

Title

should read Nonwoven abrasive material roll  
Nonwoven abrasive material

Attached herewith is a copy of the erroneous Official Filing Receipt marked-up showing the corrections needed. Also, attached is a copy of the executed Declaration and Power of Attorney as filed with the subject application and a copy of the Transmittal Letter to the United States Designated/Elected Office (DO/EO/US). Correction of the above is respectfully requested.

Respectfully submitted,



David R. Saliwanchik  
Patent Attorney  
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Gainesville, FL 32606-6669

DRS/la

Enclosures: Copy of erroneous Official Filing Receipt;  
Copy of executed Declaration and Power of Attorney; and  
Copy of Transmittal Letter to the DO/EO/US.



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/089,873	04/03/2002	1734	1142	GJE-90		12	6

CONFIRMATION NO. 1428

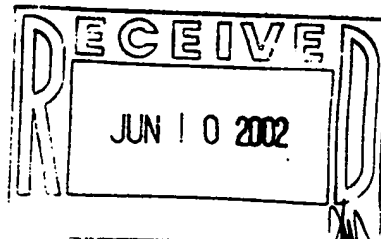
23557

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2421 N.W. 41ST STREET  
SUITE A-1  
GAINESVILLE, FL 326066669

## FILING RECEIPT



\*OC000000008217641\*



Date Mailed: 06/04/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Neill Rawson, Halifax, UNITED KINGDOM;  
Richard Lees, Halifax, UNITED KINGDOM;

## Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/GB00/03799 10/04/2000

## Foreign Applications

UNITED KINGDOM 9923424.7 10/04/1999  
UNITED KINGDOM 0005355.3 03/06/2000  
UNITED KINGDOM 0009332.8 04/14/2000  
UNITED KINGDOM 0012085.7 06/18/2000

— 05/18/2000

Projected Publication Date: Not Applicable, filed prior to November 29, 2000

Non-Publication Request: No

Early Publication Request: No

Title

Nonwoven abrasive material

**Preliminary Class**

156

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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**NOT GRANTED**

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OIPE  
 JUN 24 2002  
 PATENT & TRADEMARK OFFICE

FORM PTO-1390  
 (REV. 9-2001)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

GJE-90

TRANSMITTAL LETTER TO THE UNITED STATES  
 DESIGNATED/ELECTED OFFICE (DO/EO/US)  
 CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO.

PCT/GB00/03799

INTERNATIONAL FILING DATE

04 October 2000

PRIORITY DATE CLAIMED

04 October 1999

TITLE OF INVENTION

Nonwoven Abrasive Material

APPLICANT(S) FOR DO/EO/US

Neill Rawson and Richard Lees

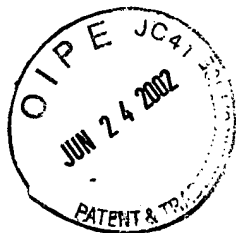
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) signed
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:

Certificate of Mailing  
 New page 8 (Abstract of the Disclosure)

**NONWOVEN ABRASIVE MATERIAL**Field of the Invention

This invention relates to nonwoven abrasive materials.

Background to the Invention

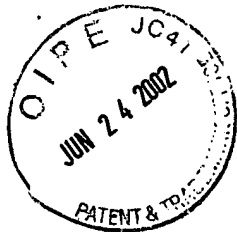
5 Nonwoven abrasive materials are well known in the art. Many of these articles are manufactured from polyamide fibres, and include a binder such as phenol-formaldehyde (PF) resin. There are currently a large number of non woven abrasive products in the market place. Most of these articles are made from polyamide fibres (generally Nylon 6 or Nylon 66) and the binder usually employed is phenol-  
10 formaldehyde resin (PF). For less aggressive products, polyester fibres and acrylic binders are often used. Current nonwoven abrasives are used in sheets, pads or discs, or are converted into flap wheels or bias mops etc., all of which require sheet strength and integrity. All have sufficient integrity to exist in the form of a sheet having defined surfaces that retains its shape when used for surface-finishing and cleaning.

15 Products that do not have such integrity and that may be used for surface cleaning and preparation are typically made of cotton wool or steel wool. These materials differ from nonwoven abrasives in that they contain no mineral abrasive particles and in that the fibres are wholly or substantially natural in the case of cotton wool or metallic in the case of wire wool. In both cases, surface cleaning and  
20 preparation are effected by the fibres themselves. In the case of nonwoven abrasives, the surface cleaning and preparation is mostly or entirely a result of the abrasive action of the abrasive mineral grains and/or the binder system contained within the structure. The synthetic fibres are used largely as carriers for these abrasive grains and binders.

25 Summary of the Invention

According to a first aspect of the present invention, an abrasive material comprises nonwoven synthetic fibres obtained by breaking down a larger mass of fibres into small individual sections with no bonding between them. These sections may be individual fibres, a number of fibres bound together or thin strips of nonwoven  
30 fleece.

According to a second aspect of the present invention, an abrasive material comprises nonwoven, synthetic fibres, wherein the entanglement force between the fibres is great enough to maintain a wad of material when in use but small enough to allow the product to be shaped in the hand of a user.

DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter which is claimed and for which a patent is sought on an invention entitled  
**NONWOVEN ABRASIVE MATERIAL**

the specification of which ☐ is attached hereto or

☐ was filed on 04 OCT 2000 as United States Application Number or PCT International Application Number PCT/GB00/03799 and was amended on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for a patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application Number(s)	Country	Foreign Filing Date	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
9923424.7	GB	04 OCT 1999	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0005355.3	GB	06 MAR 2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0009332.8	GB	14 APR 2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0012085.7	GB	18 MAY 2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Saliwanchik, Lloyd & Saliwanchik  
 2421 N.W. 41st Street, Suite A-1  
 Gainesville, FL 32606-6669  
 USA

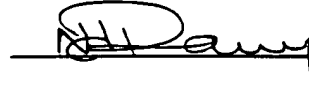
Direct all correspondence to:

David R. Saliwanchik, Reg. 31,794; Jeff Lloyd, Reg. 35,589; Doran R. Pace, Reg. 38,261; Christine Q. McLeod, Reg. 36,213; Jay M. Sanders, Reg. 39,355; James S. Parker, Reg. 40,119; Jean E. Kyle, Reg. 36,987; Frank C. Eisenschenk, Reg. 45,332; Seth M. Blum, Reg. 45,489; Glenn P. Ladwig, Reg. 46,853; Margaret Efron, Reg. 47,545 and Jon Michael Gibbs, Reg. 47,594

I hereby declare that the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C 1001 and that such willful false statements may jeopardise the validity of the application or any patent issued thereon.

Full name of sole or First Inventor Neill RAWSON

Inventor's signature



Residence address Halifax, United Kingdom

Post Office address

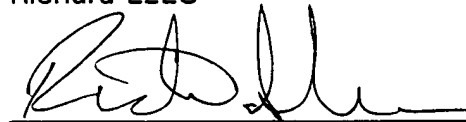
SIA FIBRAL LTD., P.O. Box 3, Ellistones Lane, Greetland  
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Country of Citizenship United Kingdom

Date of signature 22/03/02

Full name of Second Inventor Richard LEES

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Date of signature 22/3/02